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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,288	. 09/12/2003	Michael A. Duncan	CHA920030019US1	7423
	1590 04/13/200 ARNICK & D'ALESS.	EXAMINER .		
75 STATE STR		CHEN, ALAN S		
14TH FLOOR ALBANY, NY 12207			ART UNIT	PAPER NUMBER
			2182	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/661,288	DUNCAN ET AL.			
		Examiner	Art Unit			
		Alan S. Chen	2182			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exten after: - If NO - Failur Any ro	DRTENED STATUTORY PERIOD FOR REPLINED HEVER IS LONGER, FROM THE MAILING Disions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period to to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) ☐ 3) ☐	Responsive to communication(s) filed on 12 F This action is FINAL. 2b) This Since this application is in condition for allowa closed in accordance with the practice under the	s action is non-final. nce except for formal matters, pro				
Disposition of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) <u>1,3-17 and 19-34</u> is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1,3-17 and 19-34</u> is/are rejected. Claim(s) <u>1,3-17 and 19-34</u> is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 12 September 2003 is/Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	fare: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	No.					
2) Notice 3) Information	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate			

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/12/2007 has been entered.

Response to Arguments

- 2. Applicant's arguments in view of the amendment filed 02/12/2007, with respect to the prior art rejection have been fully considered and are persuasive. The 35 USC §103(a) rejection of claims 1,3-17 and 19-34 has been withdrawn.
- 3. Applicant has not responded to the 35 USC §112 rejection, which is hereby maintained and reiterated below in addition to new a 35 USC §112 rejection based on the newly submitted amendment.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1,3-17 and 19-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. The term "low latency" in claims 1,12,13,17,28,29 and 33 is a relative term which renders the claim indefinite. The term "low latency" is not defined by the claim, the

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specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Examiner will assume low latency to be the speed for operations of real or non-real time operations. All respective dependent claims are rejected due to the rejected base claim.

- 7. Claims 1,17 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. They recite the limitation "near real-time" which is indefinitely as to the degree at which the invention is to real-time. Examiner recommends quantifying what the applicant intends to mean such as defining an inequality that is supported by the specification.
- 8. The remaining claims are rejected by virtue of being dependent upon a rejected based claim.
- 9. For the purposes of this Office action, Examiner will assume "low latency" and "near real-time" to simply mean real-time.

Allowable Subject Matter

10. Claims 1,3-17 and 19-34 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is the statement of reasons for the indication of allowable subject matter: The prior art disclosed by the applicant and cited by the Examiner fail to teach or suggest, alone or in combination, **all** the limitations of the independent claim(s) (claims 1,17 and 33), particularly an interface device adapted in a computer system for

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providing a communication interface to a plurality of external devices remote from said computer system, the interface device comprising a plurality of transfer control logic (TCL) modules, each providing a dedicated interface for an associated one of the remote external devices wherein the multiple TCL modules can communicate in real-time and in parallel with their associated remote external device, a dual-port memory selectively communicable with each of the TCL modules in a round robin fashion.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S. Chen whose telephone number is 571-272-4143. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim N. Huynh can be reached on 571-272-4147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ASC 04/03/2007 Alan DTU 4/3/07